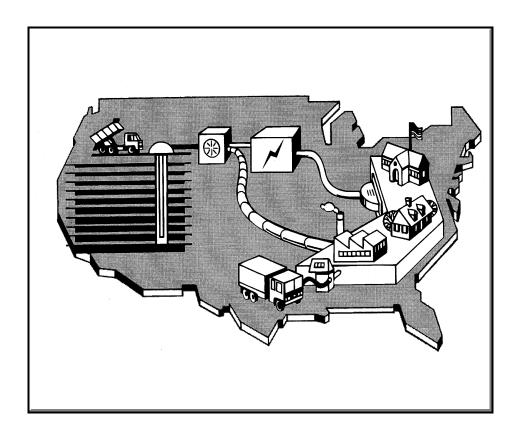


EPA Landfill Gas-to-Energy Project **Opportunities**

Landfill Profiles for the State of Wisconsin





EPA Landfill Methane Outreach Program



The EPA Landfill Methane Outreach Program, a key component of the United State's *Climate Change Action Plan*, encourages the use of landfill gas (LFG) as an energy resource. EPA assists utilities,

municipal and private landfill owners and operators, tribes, and state agencies in reducing methane emissions from landfills through the development of profitable landfill energy recovery projects. Methane captured from landfills can be transformed into a cost-effective fuel source for electricity, heat, boiler and vehicular fuel, or sale to a pipeline. EPA estimates there are approximately 200 landfill methane recovery projects in the U.S. and that up to 750 landfills could install economically viable landfill energy projects.

The Landfill Methane Outreach Program includes five important components: the State Ally, Energy Ally, Industry Ally, Community Partner, and Endorser programs. EPA establishes separate alliances with state agencies, energy providers (including investor-owned, municipal and other public power utilities and cooperatives), key trade and public sector associations, members of the landfill gas development industry (including developers, engineers, equipment vendors, and others) and local communities, municipalities and landfill owner/operators through a Memorandum of Understanding (MOU). By signing the MOU, each Ally/Partner acknowledges a shared commitment to the promotion of landfill gas-to-energy recovery at solid waste landfills, recognizes that the widespread use of landfill gas will reduce emissions of methane and other gases, and commits to undertake activities to enhance development of this resource. In return, EPA agrees to provide landfill gas-to-energy project assistance and public recognition of the Allies' and Partners' participation in the program.

Introduction

Since 1994 the U.S. EPA's Landfill Methane Outreach Program (LMOP) has participated in an ongoing effort to gather information on Municipal Solid Waste landfills (MSW). A key component of the LMOP is to provide MSW landfill owners and operators, project developers, utilities, and other potential project participants with information on MSW landfills that may offer attractive energy development opportunities. This document presents state specific landfill information, hereinafter referred to as the landfill profiles. These profiles are useful to evaluate the potential for developing landfill gas-toenergy projects (LFGTE). EPA assembled this information from state and local sources as well as various national solid waste publications, landfill owners and operators, and project developers.

The EPA has prepared a separate document to describe the methodology used to develop the state-specific landfill profiles and estimate the benefits of using LFGTE as an energy source. The document, Landfill Gas-to-Energy Project Opportunities, Background Information on Landfill Profiles, contains background information on gas collection and use, describes the data fields according to the five sections listed on the landfill profiles, and where applicable, illustrates calculations and default values used to derive estimates. EPA strongly recommends that users read the document prior to using the landfill profiles. Users can obtain the document by calling the LMOP hotline at 1-888-STAR-YES.

Data Sources

- EPA-ORD Landfill Gas Utilization-Survey (Thorneloe, 1997)
- Directory and Atlas of Solid Waste Disposal Facilities (SWA, 1994)
- Implementation Guide for Landfill Gas Recovery Projects in the Northeast (SCS, 1994)
- Landfill Gas-to-Energy 1994-1995 Activity Report (SWT, 1994)
- Methane Recovery from Landfill Yearbook (GAA, 1994)
- · Project developers, landfill owners, and operators
- · State and local records
- · Survey of Landfill Gas Generation Potential (EPRI, 1992)
- U.S. Landfill Directory (SWANA, 1992)

Landfill Classification

To facilitate the use of available landfill information, EPA has categorized the landfills into five categories: Current Project, ¹ Candidate Project, Shutdown, Other, and Unknown waste-in-place (WIP). These categories are based on the status of the landfill's LFGTE project(s) and WIP. The generation of methane is a function of many factors, the most critical being the amount of waste-in-place and the number of years the waste has been in the landfill. Peak methane generation occurs soon after closure; therefore, the longer the landfill has been closed, the less attractive it becomes for methane recovery. Based on the general timing of peak methane generation, EPA assumes that landfills that ceased accepting waste prior to 1993 have a low probability of generating enough methane to make a gas recovery project economical. Consequently, landfills need to be operating in 1993 to be considered as having a Candidate Project.

Landfill Categorizes

Current Project:

 Landfill with operational LFGTE project or landfill with LFGTE project under construction.

Candidate Project:

- Landfill with a potential or planned LFGTE utilization project; or
- Landfill is currently operating or closed after 1993; and has more than 1,000,000 tons of municipal solid waste-inplace.²

Shutdown:

· Landfill with shutdown LFGTE project.

Other

 Landfill has less than 1,000,000 tons of municipal solid waste-in-place with no current or planned LFGTE project.

Unknown WIP:

 Landfill with insufficient data to determine the waste-inplace

State Summary

State-specific landfill profile information is summarized in three exhibits. Exhibit 1 presents a summary of the state-specific potential for LFG utilization energy by landfill category. Exhibit 2 summarizes the emissions avoided by fossil fuel displacement for electricity generation and direct use projects. Exhibit 3 presents an index of the state-specific MSW landfills, referenced by category, landfill name and general characteristics.

² By modeling the relationship between WIP and methane generation, a cut-off of 1,000,000 tons of WIP was established; landfills having at least 1,000,000 tons of WIP are considered candidate landfills.



¹ Current projects illustrate the wide range of successful project development options.

Exhibit 1: Wisconsin MSW Landfill Summary

Category	No. of	Est. Capac	ity Potential	Est. CH4	Methane F		CO2 Equivalent of CH4		
	Landfills	Electricity (MW)	Gas Capacity (mmBtu/hr)	Generation (mmscf/d)	(tons	s/yr)	Reduction (tons/yr)		
					Potential	Current	Potential	Current	
Current	12	60	597	19	110,473	65,910	2,319,939	1,384,116	
Candidate	12	34	340	11	62,893	5,782	1,320,747	121,414	
Shutdown	1	1	9	0	1,635	1,927	34,327	40,471	
Other	30	8	79	3	14,698	0	308,650	0	
Unknown WIP	3								
Total	58	103	1,025	33	189,698	73,619	3,983,662	1,546,001	

Exhibit 2: Potential Wisconsin Emissions Avoided by Fossil Fuel Displacement

Category		Electricity Generation Project						Direct Use Project					
	CO2 (tons/yr)		SO2 (tons/yr)		CO2 (tons/yr)			so	2 (tons/	yr)			
	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	
Current	470,408	386,090	259,612	2,973	2,485	0	332,675	273,045	183,599	3,027	1,591	2	
Candidate	269,143	220,901	148,537	1,701	1,422	0	189,393	155,445	104,523	1,724	906	1	
Shutdown	7,104	5,830	3,920	45	38	0	4,922	4,040	2,717	45	24	0	
Other	62,353	51,176	34,412	394	329	0	44,260	36,327	24,426	403	212	0	
Unknown WIP													
Total	809,008	663,997	446,481	5,114	4,274	0	571,251	468,856	315,265	5,198	2,732	3	

Exhibit 3: Index of Landfills in Wisconsin

Category	Landfill Name		WIP		Landfill	LFG Collected	LFG	Status of LFGTE
		<2.5 million tons	2.5 to 4 million tons	>4 million tons	Operating in 1998		Utilization Project	Project
Current	Dane County LF #1-Verona	✓				✓	✓	Operational
Current	Dane County LF #2-Rodefeld	✓			>	✓	✓	Operational
Current	Kestrel Hawk Park LF			✓		✓	✓	Operational
Current	Marathon County LF	✓				✓	✓	Operational
Current	Metro Recycling and Disposal LF			✓	✓	✓	✓	Operational
Current	Omega Hills LF			✓		✓	✓	Operational
Current	Outagamie County LF			✓	✓	✓	✓	Operational
Current	Parkview Recycling LF			✓		✓	✓	Operational
Current	Pheasant Run Recycling LF			V	✓	✓	✓	Operational
Current	Valley Trail LF	✓			✓	✓		Construction
Current	Winnebago County LF - Snell Road			V		✓	✓	Operational
Current	Winnebago County LF-Sunneyview	✓			✓		✓	Operational
Candidate	Brown County East LF		✓		✓	✓		Planned
Candidate	Brown County West LF		✓			✓		Potential
Candidate	Hechimovich SLF	✓			✓			Planned
Candidate	La Crosse County LF	✓				✓		Potential
Candidate	Mallard Ridge Northern Expansion LF	✓			✓			Planned
Candidate	Mallard Ridge Recycle LF		✓			✓		Planned
Candidate	Oneida County SLF and Demolition	✓			✓			Potential
Candidate	Ridgeview Recycling LF			✓	✓	✓		Planned
Candidate	Rock County City of Janesville LF	✓			>	✓		Planned
Candidate	Tork LF Corporation-Seneca LF	✓			✓	✓		Potential
Candidate	Troy Area LF Incorporated		✓			✓		Unknown
Candidate	Valley Sanitation Company Incorporate	✓			>	✓		None
Shutdown	Tork LF (old)	✓				✓		Shutdown
Other	Adams County Resource Recovery LF	✓			>			Unknown
Other	Deer Track Park Incorporated LF	✓			>			Unknown
Other	Door County SLF	✓			>			Unknown
Other	Easton Town LF	✓						Unknown
Other	Eau Claire County-7 Mile Creek LF #1	✓						Unknown
Other	Eau Claire County-7 Mile Creek LF #2	✓			>			Unknown
Other	Green Lake SLF	✓			>	✓		Unknown
Other	Hayward Town LF	✓						Unknown
Other	Hustiford Town LF	✓						Unknown
Other	Jackson County SLF	✓						Unknown
Other	Kewaunee County Solid Waste Balefill	✓			~			Unknown
Other	La Crosse County LF-Robinson Site	✓			✓			Unknown
Other	Lake Area Disposal LF-S Expansion	✓			✓			Unknown
Other	Land & Gas Reclaimation LF	✓				✓		Unknown

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Exhibit 3: Index of Landfills in Wisconsin

Category	Landfill Name		WIP		Landfill	LFG Collected	LFG	Status of LFGTE
		<2.5 million tons	2.5 to 4 million tons	>4 million tons	Operating in 1998		Utilization Project	Project
Other	Lincoln County SLF	✓			✓			Unknown
Other	Marinette/Oconto County LF	✓			✓			Unknown
Other	Markesan City Town of Mackford LF	✓						Unknown
Other	Metropolitan Refuse District Incorporate	✓			✓			Unknown
Other	Monroe County-Ridgeville Site LF	✓			✓			Unknown
Other	Montello City LF	✓						Unknown
Other	Plymouth City LF	✓			✓			Unknown
Other	Portage County LF	✓			✓			Unknown
Other	Prentice Village LF	✓			✓			Unknown
Other	Princeton City LF	✓						Unknown
Other	Rio Village LF	✓						Unknown
Other	Round Lake Town LF-A Site	✓						Unknown
Other	Sadoff and Rudoy Industries LF	✓			✓			Unknown
Other	Sauk County SLF	✓			✓			Unknown
Other	Sheboygan Falls City LF	✓						Unknown
Other	Superior City Mocassin Mike LF	✓			✓			Unknown
Unknown WIP	Emerald Park, Inc. LF							None
Unknown WIP	Marathon County LF-Area B							Unknown
Unknown WIP	Ridgeview LF					✓		Unknown

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			Brown County Ea	st LF		Landfill Catego	ry: Candidate
		A. G	ENERAL LANDFILL IN		ION	<u> </u>	•
Landfill Owner:	Brown	County	Ar	nual Accep	tance Rate (tons):	247,847
Landfill Owner Type:	Public	•		-	Acceptance Rate		1998
Alternative Landfill N	ame:			sign Capaci	-	•	4,199,160
City:	DePere	;			ly Landfilled (ac	eres):	71
County:	Brown			erage Deptl	-	,	100
State:	WI				n-Place (tons):		3,400,000
Year Open:	1997				-Place (tons):		3,400,000
Year Closed:	2001			y y y close the	Tues (rons).		2,100,000
		I	B. LANDFILL GAS COL	LECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.29			
LFG Collection Syster		,	Oper	ational			
Current LFG Collected			1				
Collection and Treatm		uired Under NSF	PS/EG:	No			
	ent system requ		C. LANDFILL GAS UTI		Ţ		
Current Utilization:							
	G	DI I					
Utilization System		Planned					
Utilization System		High Btu					
Utilization System			11. 6				
Electric Utility Pr			ublic Service				
Natural Gas Prov			ublic Service				
Energy Purchaser	r(s):	1) Packerlan	d Packing (rendering) 2)	WP			
Capacity:		Electrici	ty Generation Project (MW	<i>I</i>) (DR Di	rect Use Project (mmBt	u/hr)
Estimated Potenti	ial Capacity:			4			40
Current Capacity:	:						
Planned Capacity	:						
Utilities in County:		Wisconsin F	Electric Power Co; Wiscons	sin Public So	ervice Corp		
			RONMENTAL BENEFIT				
		D. EIVII			LIZATION		
M.I. D.I.C.	()		Pote	ntiai	7.445	Current	0
Methane Reduction (to	• .				7,445		0
CO2 Equivalent of CH	14 Reduction (to	ns/yr):			156,335		0
Emissions Avoided by	Fossil Fuel Dist	placement:	Electricity Gener	ation Projec	et	Direct Use Pro	iect
	•		CO2 (tons/yr)	SO2 (to		CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	31,571		200	22,418	204
		Fuel Oil:	25,912		167	18,400	107
	λì	latural Gas:	17,424		0	12,372	0
			·	MATION		12,372	0
		Landfill	E. CONTACT INFOR	MATION	1	Landfill Operator	
Contact Name:	Б. П.	Landini	Owner			Landini Operator	
Comaci Ivamic.	Dean Haen			Dean	naen		
Mailing Address:	2561 S. Broad	way Street		2561	South Broadway	/	
Phone Number:	920-492-4950			920.4	92-4950		
	720 7727730)20-4) <u> </u>		
Fax Number:							



			Brown County Wes		Landfill Ca	tegory: Candidate	
		A. G	ENERAL LANDFILL IN	FORMATION			
Landfill Owner:	Brown	County	Anı	nual Acceptance Rate	e (tons):		
Landfill Owner Type:	Public			r Annual Acceptance	e Rate Reported:	1993	
Alternative Landfill N	ame:			ign Capacity (tons):		4,499,100	
City:	Hobart			es Currently Landfill	led (acres):	57	
County:	Brown			erage Depth (feet):		100	
State:	WI		199	98 Waste-in-Place (to	ons):	3,151,348	
Year Open:	1976		199	8 Waste-in-Place (to	ns):	3,151,348	
Year Closed:	1997						
		I	B. LANDFILL GAS COL	LECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.22			
LFG Collection System	n Status:		Opera	tional			
Current LFG Collected	d (mmscf/d):						
Collection and Treatm	ent System Requ	uired Under NSP	S/EG:	Yes			
			C. LANDFILL GAS UTILIZATION				
Current Utilization:							
Utilization Syster	n Status:	Potential					
Utilization Syster		Attempting I	High Btu				
Utilization Syster	• 1	1 2					
Electric Utility Pr		Wisconsin P	ublic Service				
Natural Gas Prov	•						
Energy Purchaser	r(s):						
Capacity:		Electrici	y Generation Project (MW) OR	Direct Use Project (mi	nBtu/hr)	
Estimated Potenti	ial Capacity:			4		38	
Current Capacity:	:						
Planned Capacity	:						
Utilities in County:		Wisconsin F	lectric Power Co; Wiscons	n Public Service Cor	n		
			ONMENTAL BENEFIT		•		
		D. EIVII					
			Poten		Curi		
Methane Reduction (to	• '			7,077		0	
CO2 Equivalent of CH	4 Reduction (to	ns/yr):		148,613		0	
Emissions Avoided by	Fossil Fuel Dist	placement:	Electricity Genera	tion Proiect	Direct Use	Project	
2ssions ilrotaea by	r ossii r iici z isp		CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)	
		G 1					
		Coal:	29,993	190	21,311	194	
		Fuel Oil:	24,617	159	17,491	102	
	N	atural Gas:	16,553	0	11,761	0	
			E. CONTACT INFORM	IATION	-		
		Landfill (Owner		Landfill Operator		
Contact Name:	Dean Haen			Dean Haen			
Mailing Address:	2561 South Bro	oadway Street		2561 South Bro	adway		
6					· ··•		
Phone Number:	920-492-4950			920-492-4950			
	720-472-4730			720-472-4730			

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: WI Page: 2



Fax Number:

Landfill Owner Type:				Dane County LF #1-			Landfill Catego	ry: Current
Landfill Owner Type: Year Annual Acceptunce Rate Reported: 1984			A. G	ENERAL LANDFILL IN	FORMAT	ION		
Alternative Landfill Name: Design Capacity (tons): 1,080,000	Landfill Owner:	Dane C	ounty Public Wo	orks Ani	nual Accept	tance Rate (tons):	173,405
City:	Landfill Owner Type:			Yea	ır Annual A	cceptance Rate	Reported:	1984
County: Dane Average Depth (Feet): 32	Alternative Landfill Na	me:		Des	ign Capaci	ty (tons):		1,050,000
State Wi	City:	Verona		Acı	es Currentl	y Landfilled (ac	eres):	50
Year Open: 1977 1998 Waste-in-Place (tons): 1,080,0000 Year Closed: 1986 B. LANDFILL GAS COLLECTION Estimated Methane Generation (mmscfd): 0.69 LFG Collection System Status: Operational Current LFG Collection System Status: Operational Under NSPS/EG: No Current Utilization System Status: Operational Capacity: Capacity: Capacity: Capacity: Capacity: DENVIROMENTAL BENEFITS OF UTILIZATION DENVIROMENTAL BENEFITS OF UTILIZATION C	County:	Dane		Ave	erage Depth	(feet):		32
Part Closed: 1986	State:	WI						1,050,000
Set 1986	Year Open:	1977		199	8 Waste-in	-Place (tons):		1,050,000
Estimated Methane Generation (mmscfid): LFG Collection System Status: Collection and Treatment System Required Under NSPs/EG: No CUrrent LFG Collected (mmscfid): Utilization System Status: Capacity: Electric Utility Provider(s): Fanergy Purchaser(s): Capacity: Electric Cope Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Methane Reduction (tons/yr): Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Methane Reduction (tons/yr): Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Methane Reduction (tons/yr): Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION **Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION **Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani **Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani **Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani **Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani **Columbia Electric Coop; Black Earth U	_	1986						
Current LFG Collection System Status:			I	3. LANDFILL GAS COL	LECTION			
Collection System Status:	Estimated Methane Gen	neration (mmsc	f/d):		0.69			
Current LFG Collected (mmself/d): Collection and Treatment System Required Under NSPS/EG: No CLANDFILL GAS UTILIZATION Current Utilization: Utilization System Status: Denry Purchaser(s): Capacity: Estimated Protential Capacity: Estimated Potential Capacity: Estimated Potential Capacity: Utilities in County: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani DENVIRONMENTAL BENEFITS OF UTILIZATION Potential Methane Reduction (tons/yr): Bassions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) SO2 (tons/yr) Coal: 16.575 105 11.953 109 Fuel Oil: 13.604 88 9.811 57 Natural Gas: 19.147 0 0 6.597 0 Coal: E. CONTACT INFORMATION Landfill Operator Contact Name: Landfill Owner Landfill Operator Contact Name: Gerald Mandli Mailing Address: 1919 Expo Way		_	,	Opera	itional			
Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization System Status: Operational Utilization System Start Year: 1995 Electric Utility Provider(s): Electric Utility Provider(s): Energy Purchaser(s): Energy Purchaser(s): 2 Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 2 Current Capacity: 0.6 8 Planned Capacity: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani Utilities in County: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani Potential Capacity: Current Capacity: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) SO2 (tons/yr) SO3 (tons/yr) S	_			•				
Current Utilization: Utilization System Status: Utilization System Type: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) Estimated Potential Capacity: Current Capacity: Utilities in County: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Methane Reduction (tons/yr): CO2 Equivalent of CH4 Reduction (tons/yr): Emissions Avoided by Fossil Fuel Displacement: CO2 (tons/yr) Coal: 16.575 105 11.953 109 Fuel Oil: 13.604 88 9.811 57 Natural Gas: 9,147 0 6,597 0 Contact Name: Reciprocating Engine Utilization System Status: Utilization System Status: Potential Current 1.542 CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) SO2 (tons/yr) SO2 (tons/yr) Landfill Owner E. CONTACT INFORMATION Landfill Operator Contact Name: Mailing Address: 1919 Expo Way			uired Under NSP	S/EG:	No			
Utilization System Status: Operational Cultilization System Type: Reciprocating Engine Utilization System Start Year: 1995 Electric Utility Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 2 22 Current Capacity: 0.6 8 Planned Capacity: O.6 88 Planned Capacity: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Wethane Reduction (tons/yr): 3,969 1,542 CO2 Equivalent of CH4 Reduction (tons/yr): 83,357 32,378 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) SO2 (tons/yr) Coal: 16,575 105 11,953 109 Fuel Oil: 13,604 88 9,811 57 Natural Gas: 9,147 0 6,597 0 E. CONTACT INFORMATION E. CONTACT INFORMATION Contact Name: Gerald Mandli Mailing Address: 1919 Expo Way Enter Out to the Contact Name of Capacity of Capacity of Contact Name of Capacity o		7 1			IZATION			
Utilization System Status: Operational Utilization System Type: Reciprocating Engine Utilization System Start Year: 1995 Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 2 22 Current Capacity: 0.6 8 Planned Capacity: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Wethane Reduction (tons/yr): 3,969 1,542 CO2 Equivalent of CH4 Reduction (tons/yr): 83,357 32,378 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) SO2 (tons/yr) Coal: 16,575 105 11,953 109 Fuel Oil: 13,604 88 9,811 57 Natural Gas: 9,147 0 6,597 0 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Gerald Mandli Mailing Address: 1919 Expo Way	Current Utilization:							
Utilization System Type: Reciprocating Engine Utilization System Start Year: 1995 Electric Utility Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 0.6 8 Planned Capacity: 0.6 8 Planned Capacity: 0.6 Current Capacity: 0.6 8 Planned Capacity: 0.6 Current Ca		Status:	Operational					
Utilization System Start Year: 1995 Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 2 22 Current Capacity: 0.6 8 Planned Capacity: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Utilities in County: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Methane Reduction (tons/yr): 3,969 1,542 CO2 Equivalent of CH4 Reduction (tons/yr): 83,969 1,542 CO2 Equivalent of CH4 Reduction (tons/yr): 83,969 1,542 CO2 Equivalent of CH4 Reduction (tons/yr): 80,200 Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) Direct Use Project CO2 (tons/yr) CO2 (tons/yr) Direct Use Project CO2 (tons/yr) CO2 (tons/y			-	g Engine				
Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)	·	• •	•	5 Engine				
Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtw/hr)			1773					
Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)								
Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 2 Current Capacity: 0.6 Planned Capacity: 3 Utilities in County: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION								
Estimated Potential Capacity: 2 0.6 8	Energy Turchaser(3).						
Current Capacity: Planned Capacity: 0.6 8	Capacity:		Electrici	y Generation Project (MW) (DR Di	rect Use Project (mmBt	u/hr)
Planned Capacity: Utilities in County: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani	Estimated Potentia	ıl Capacity:			2			22
Utilities in County: Adams-Columbia Electric Coop; Black Earth Utilities; Madison Gas & Electric Company; Mazomani D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential					0.6			8
D. ENVIRONMENTAL BENEFITS OF UTILIZATION	Planned Capacity:							
D. ENVIRONMENTAL BENEFITS OF UTILIZATION	Utilities in County:		Adams-Colu	mbia Electric Coop; Black	Earth Utilit	ties; Madison G	as & Electric Company;	Mazomani
Potential Current 3,969 1,542 32,378	,							
Methane Reduction (tons/yr): 3,969 1,542 CO2 Equivalent of CH4 Reduction (tons/yr): 83,357 32,378 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) Direct Use Project CO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) <			D. ETVII				Comment	
Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) SO2 (tons/	Madama Daladan (4	()		Poten	паі	2.000	Current	1.542
Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project CO2 (tons/yr) SO2 (tons/		-	()			· · · · · · · · · · · · · · · · · · ·		
CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr)	CO2 Equivalent of CH4	Reduction (toi	ns/yr):			83,357		32,378
CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr)	Emissions Avoided by F	ossil Fuel Disp	olacement:	Electricity Genera	tion Projec	rt	Direct Use Pro	ject
Coal: 16,575 105 11,953 109 Fuel Oil: 13,604 88 9,811 57 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Gerald Mandli Gerald Mandli Mailing Address: 1919 Expo Way 1919 Expo Way		-		CO2 (tons/yr)	SO2 (tor	ıs/yr)	•	
Fuel Oil: 13,604 88 9,811 57 Natural Gas: 9,147 0 6,597 0 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Gerald Mandli Mailing Address: 1919 Expo Way 1919 Expo Way			Coal:	•			11 953	
Natural Gas: 9,147 0 6,597 0								
E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Gerald Mandli Mailing Address: 1919 Expo Way 1919 Expo Way			Fuel Oil:	13,604		88	9,811	57
Landfill Owner Landfill Operator Contact Name: Gerald Mandli Mailing Address: 1919 Expo Way 1919 Expo Way		N	atural Gas:	9,147		0	6,597	0
Contact Name: Gerald Mandli Gerald Mandli Mailing Address: 1919 Expo Way 1919 Expo Way				E. CONTACT INFORM	IATION			
Mailing Address: 1919 Expo Way 1919 Expo Way			Landfill (Owner]	Landfill Operator	
	Contact Name:	Gerald Mandli			Gerale	d Mandli		
	Mailing Address	1919 Expo Wa	V		1919	Exno Way		
Phone Number: 608-266-4029 608-266-4029	maining Addiess.	ivivibapo wa	•3		1919	Expo way		
300 200 1025	Phone Number:	608-266-4029			608-2	66-4029		
For Number (00.007.1502)								
Fax Number: 608-267-1533 608-267-1533	Fax Number:	008-267-1533			608-2	0/-1333		

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			Dane County LF #2-F	Rodefeld		Landfill Categor	y: Current
		A. G	ENERAL LANDFILL IN	FORMAT	ION		
Landfill Owner:	Dane C	County Public Wo	orks An	nual Accept	tance Rate (to	ons):	129,047
Landfill Owner Type:	Public	J		_		ate Reported:	1994
Alternative Landfill N	ame:			sign Capaci	-		7,071,400
City:	Madiso	on			y Landfilled	(acres):	62
County:	Dane			erage Deptl	-	(90
State:	WI				n-Place (tons)):	2,094,058
Year Open:	1985				-Place (tons).		2,481,199
Year Closed:	2010			o mane in	Trace (rons).	•	2,.01,122
		l	B. LANDFILL GAS COL	LECTION			
Estimated Methane Ge	eneration (mmsc	f/d)·		1.05			
LFG Collection System		,,,.	Oner	ational			
Current LFG Collected			Орег	1.0			
Collection and Treatm		uired Under NSI	PS/FG·	No			
Concetion and Treatm	ent System Requ		C. LANDFILL GAS UTI				
Current Utilization:							
	C4-4	0					
Utilization System		Operational	Б.,				
Utilization System	• •	Reciprocatin	g Engine				
Utilization System		1997					
Electric Utility Pr							
Natural Gas Prov	* *						
Energy Purchaser	r(s):						
Capacity:		Electrici	ty Generation Project (MW	<i>y</i>) ()R	Direct Use Project (mmBtu.	hr)
Estimated Potent	ial Capacity:			3			33
Current Capacity	:						21
Planned Capacity	7:						
Utilities in County:		Adams-Colu	mbia Electric Coop; Black	Earth Utili	ties; Madison	Gas & Electric Company; I	Mazomani
		D. ENVII	RONMENTAL BENEFIT	S OF UTII	LIZATION		
			Poter	ntial		Current	
Methane Reduction (to	ons/vr):				6,086		3,854
CO2 Equivalent of CH	- ·	ns/vr):			127,802		80,942
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Genera	ation Projec	rt	Direct Use Proje	ect
			CO2 (tons/yr)	SO2 (tor	ıs/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	26,046		165	18,327	167
		Fuel Oil:	21,378		138	15,042	88
	N	latural Gas:	14,375		0	10,114	0
			E. CONTACT INFORM	MATION			
	T	Landfill	Owner			Landfill Operator	
Contact Name:	Gerald Mandli			Gerale	d Mandli		
Mailing Address:	 1919 Expo Wa	ıy		1919	Expo Way		
		-					
Phone Number:	608-266-4029			608-2	66-4029		
Fax Number:	608-267-1533			608-2	67-1533		
* Itallicized indicates		1 ED4	ъ	mbor 5 100	0	State: WI Day	

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			Hechimovich SLF			Landfill Catego	ry: Candidate	
		A. G	ENERAL LANDFILL INFO	ORMAT	ION			
Landfill Owner:	Superio	or Services, Inc.		_	tance Rate (285,606	
Landfill Owner Type:	Private				-	Rate Reported:	1993	
Alternative Landfill N			_	-	ity (tons):		1,600,000	
City:	Horico	1			ly Landfille	d (acres):	20	
County:	Dodge			age Deptl			40	
State:	WI			e-in-Plac			1,270,377	
Year Open:	1986		1998	Waste-in	-Place (ton.	s):	1,501,354	
Year Closed:		ī	B. LANDFILL GAS COLLI	FCTION	ſ			
	/							
Estimated Methane Ge		t/d):		0.80				
LFG Collection System			Pla	nned				
Current LFG Collected Collection and Treatm	,	.: J.II J NCD	oc/E.C.	NI.				
Collection and Treatm	ent System Requ		der NSPS/EG: No C. LANDFILL GAS UTILIZATION					
Current Utilization:				2.11101	•			
Utilization System	n Status:	Planned	nnod					
Utilization System		Unknown						
Utilization System	• 1	Ulikilowii						
Electric Utility P								
Natural Gas Prov								
Energy Purchaser		s):						
Energy Turchaser	(3).							
Capacity:		Electrici	ty Generation Project (MW)	(OR	Direct Use Project (mmBt	ı/hr)	
Estimated Potent	ial Capacity:			3			25	
Current Capacity:	:							
Planned Capacity	:							
Utilities in County:		Adams-Colu	mbia Electric Coop; Hustisfo	ord Electr	ic Util; June	eau Utility Commission; Oak	dale Electr	
-		D. ENVIR	CONMENTAL BENEFITS	OF UTI	LIZATION	· I		
			Potenti			Current		
Methane Reduction (to	me/vr):		1 Otentio	ш	4,637	Current	0	
CO2 Equivalent of CH	= '	ns/vr)·			97,373		0	
CO2 Equivalent of CII		13/ y1).			71,313			
Emissions Avoided by	Fossil Fuel Disp	placement:	Electricity Generati	on Projec	ct	Direct Use Pro	ject	
			CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)	
		Coal:	19,732		125	13,963	127	
		Fuel Oil:	16,195		104	11,460	67	
	N	atural Gas:	10,890		0	7,706	0	
			E. CONTACT INFORMA	ATION				
		Landfill (Owner			Landfill Operator		
Contact Name:	Gary Bartells			Gary	Bartells			
Mailing Address:	10150 West Na	ational Avenue		707 V	alley Street	į		
Phone Number:	920-387-0987			920-3	87-0987			
Fax Number:	414-328-2899							



			Kestrel Hawk Parl	k LF		Landfill Cate	gory: Current
		A. GI	ENERAL LANDFILL IN	FORMAT	ION		
Landfill Owner:	Land R	eclamation Comp	oany An	nual Accep	tance Rate (to	ons):	325,496
Landfill Owner Type:	Private		Ye	ar Annual A	Acceptance Ra	ate Reported:	1993
Alternative Landfill N	ame:		De	sign Capaci	ty (tons):		5,000,000
City:	Racine		Ac	res Currentl	y Landfilled	(acres):	68
County:	Racine		Av	erage Deptl	n (feet):		
State:	WI		Wa	ste-in-Place	e (tons):		11,786,702
Year Open:	1964		199	98 Waste-in	-Place (tons).	•	12,143,875
Year Closed:	1997						
		В	. LANDFILL GAS COL	LECTION	•		
Estimated Methane Ge	eneration (mmsc	f/d):		3.15			
LFG Collection System	m Status:		Oper	ational			
Current LFG Collected	d (mmscf/d):			1.2			
Collection and Treatm	ent System Requ	uired Under NSP	S/EG:	No			
		(C. LANDFILL GAS UTI	LIZATION	Ī		
Current Utilization:							
Utilization System	n Status:	Operational					
Utilization System		Direct Therm	al				
Utilization System	• •	1989					
Electric Utility P		1,0,					
Natural Gas Prov							
Energy Purchaser							
Capacity:		Electricit	y Generation Project (MW	[']) (OR T	Direct Use Project (mml	Btu/hr)
Estimated Potent	ial Capacity:			10			98
Current Capacity							25
Planned Capacity	7:						
Utilities in County:		Wisconsin E	ectric Power Co				
		D. ENVIR	ONMENTAL BENEFIT	S OF UTII	LIZATION		
			Poter	ntial		Currei	nt
 Methane Reduction (to	ons/vr)·		10101	iiicii	18,198	Curren	4,625
CO2 Equivalent of CH	• '	ns/vr)·		,	382,160		97,131
CO2 Equivalent of CI	Transition (10)	157 y 1).			302,100		77,131
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Genera	ation Projec	et	Direct Use P	roject
			CO2 (tons/yr)	SO2 (to	ıs/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	77,349		489	54,801	499
		Fuel Oil:	63,485		409	44,978	262
	N	atural Gas:	42,688		0	30,244	0
		T 10"11 C	E. CONTACT INFORM	MATION		1 1011 0	
		Landfill (Owner			Landfill Operator	
Contact Name:	Henry Koch			Henry	Koch		
Mailing Address:	1989 Oaks Roa	ad			Oakes Road 81220		
Phone Number:	414-884-7080			414-8	84-7080		
Fax Number:					84-7096		
				71730			

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			La Crosse County L	F	Landfill Category	: Candidate
		A. G	ENERAL LANDFILL INFO			
Landfill Owner:	La Cro	sse County	Annu	al Acceptance Rate ((tons):	51,541
Landfill Owner Type:	Public	sse county		Annual Acceptance		1991
Alternative Landfill N				n Capacity (tons):	Rate Reported.	899,820
City:	Medary	I	_	Currently Landfille	d (acres):	077,020
County:	La Cros			ige Depth (feet):	a (acros).	
State:	WI			e-in-Place (tons):		697,680
Year Open:	1977			Waste-in-Place (ton.	s):	697,680
Year Closed:	1991				-,-	,
]	B. LANDFILL GAS COLLE	ECTION		
Estimated Methane Ge	eneration (mmsc	f/d)·		0.25		
LFG Collection System		<i>j, u)</i> .	Operation			
Current LFG Collected			Operation	onui		
Collection and Treatm		uired Under NSF	PS/EG:	No		
	one System requ		C. LANDFILL GAS UTILIZ			
Current Utilization:						
Utilization System	n Status:	Potential				
Utilization System		Methanol Sy	enthosis			
Utilization System		Medianoi Sy	/ittlesis			
Electric Utility Pr						
Natural Gas Prov						
Energy Purchasei	* *					
Energy Turchaser	(3).					
Capacity:		Electrici	ty Generation Project (MW)	OR	Direct Use Project (mmBtu/	nr)
Estimated Potent	ial Capacity:			1		8
Current Capacity						
Planned Capacity						
Utilities in County:		Rangor Mur	ioinal Utility: Jackson Flactri	c Coop Inc: Norther	n States Power Company; Trei	nnaalaau
Othlites in County.						iipeaieau
		D. ENVII	RONMENTAL BENEFITS		I	
			Potentic		Current	
Methane Reduction (to	• '			1,426		0
CO2 Equivalent of CH	I4 Reduction (to	ns/yr):		29,936		0
Emissions Avoided by	Fossil Fuel Dist	olacement:	Electricity Generation	on Project	Direct Use Proje	rt
Emissions rivotaca by	1 ossii 1 uci Disp	насетені.	CO2 (tons/yr)	SO2 (tons/yr)		O2 (tons/yr)
		Coal:	6,314	40	4,293	39
		Fuel Oil:		33	,	21
			5,182		3,523	
	N	latural Gas:	3,485	0	2,369	0
			E. CONTACT INFORMA	ATION		
		Landfill	Owner	1	Landfill Operator	
Contact Name:	Brian Tippetts,	, County S. Wast	te Manager	Joe Schrader, Co	unty Engineer	
Mailing Address:	W5169 State R	Road 16				
8		•				
Phone Number:	600 705 0570			600 705 0572		
	608-785-9572			608-785-9572		
Fax Number:				608-785-6160		
				1		

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Mallard Ridge Northern Expansion LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: WMI Annual Acceptance Rate (tons): 247,476 Landfill Owner Type: Year Annual Acceptance Rate Reported: 1994 Alternative Landfill Name: Design Capacity (tons): 3,117,576 City: Delavan Acres Currently Landfilled (acres): County: Walworth Average Depth (feet): State: WI Waste-in-Place (tons): 742,428 1994 Year Open: 1998 Waste-in-Place (tons): 1,237,380 Year Closed: 2001 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.73LFG Collection System Status: Planned Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Planned Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) 2 Estimated Potential Capacity: 23 Current Capacity: Planned Capacity: Elkhorn Light & Water Dept; Madison Gas & Electric Company; Rock County Electric Coop Assn; S Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,247 0 CO2 Equivalent of CH4 Reduction (tons/yr): 89,177 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 18,153 115 12,788 116 Fuel Oil: 14,899 96 10,496 61 Natural Gas: 10.019 0 0 7,057 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Mike Ettner Mike Ettner Mailing Address: Route 2, Box 117 Route 2, Box 117 Phone Number: 715-724-3257 715-724-3257 Fax Number: 414-724-5479

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			Mallard Ridge Recycle	IE	I andfill I	Catagory	Candidate
		A. Gl	ENERAL LANDFILL INFO		Lanajii	Jaiegory.	Candidate
T 1011 0	••	A. 01					107.15
Landfill Owner:	WMI			al Acceptance Ra			197,494
Landfill Owner Type:				•	ce Rate Reported:		1993
Alternative Landfill Na			-	n Capacity (tons)			1,499,700
City:	Delava	n		Currently Landfi	illed (acres):		44
County:	Walwo	rth		ge Depth (feet):			
State:	WI		Waste	-in-Place (tons):			3,434,413
Year Open:	1975		1998 V	Waste-in-Place (1	tons):		3,434,413
Year Closed:	1993						
		I	B. LANDFILL GAS COLLE	CTION			
Estimated Methane Ge	eneration (mmsc	f/d):	1	.30			
LFG Collection System	n Status:		Operation	onal			
Current LFG Collected			•				
Collection and Treatme	ent System Requ	uired Under NSP	S/EG:	No			
			C. LANDFILL GAS UTILIZ	ZATION			
Current Utilization:							
	n Status	Planned					
Utilization System							
Utilization System		Unknown					
Utilization System		1996					
Electric Utility Pr							
Natural Gas Provi	* *						
Energy Purchaser	(s):						
Capacity:		Electrici	ty Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potenti	al Capacity:			4			41
Current Capacity:							
Planned Capacity							
There is an			. 0 W . D . M . C	0.51 G	D. I.C. (FI		
Utilities in County:			nt & Water Dept; Madison Ga			etric Coop	Assn; S
		D. ENVIR	CONMENTAL BENEFITS (OF UTILIZATION	ON		
			Potentia	l	C	urrent	
Methane Reduction (to	ons/yr):			7,495			0
CO2 Equivalent of CH	- ·	ns/yr):		157,403			0
T 0	`						
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generatio	n Project	Direct U	se Project	
			CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO	2 (tons/yr)
		Coal:	32,360	205	22,571		205
		Fuel Oil:	26,560	171	18,526		108
	N	atural Gas:	17,859	0	12,457		0
			E. CONTACT INFORMA	TION			
		Landfill (Landfill Operator		
Contact Name:	Mike Ettner			Mike Ettner	<u> </u>		
Mailing Address:	Route 2, Box 1	17		Route 2, Box	117		
Phone Number:	715-724-3257			715-446-3339			
Fax Number:				414-724-5479			



			Marathon County	LF		Landfill Category	Current
		A. G	ENERAL LANDFILL IN	FORMAT	ION		
Landfill Owner:	Marath	on County	Anı	nual Accept	ance Rate (t	tons):	117,893
Landfill Owner Type:	Public		Yea	r Annual A	cceptance F	Rate Reported:	1998
Alternative Landfill Na	ame: Area Ll	F	Des	ign Capaci	ty (tons):		1,319,736
City:	Ringle		Acı	es Currentl	y Landfilled	(acres):	27.3
County:	Marath	on	Ave	erage Depth	(feet):		
State:	WI		199	98 Waste-ir	-Place (tons	s):	1,532,613
Year Open:	1980		199	8 Waste-in	Place (tons):	1,532,613
Year Closed:	1993					,	, ,
		I	B. LANDFILL GAS COL	LECTION			
Estimated Methane Ge	neration (mmsc	f/d):		0.81			
LFG Collection System	n Status:		Opera	itional			
Current LFG Collected	l (mmscf/d):						
Collection and Treatme	ent System Requ	uired Under NSF	PS/EG:	No			
			C. LANDFILL GAS UTII	IZATION			
Current Utilization:							
Utilization System	n Status:	Operational					
Utilization System		Direct Thern	nal				
Utilization System							
Electric Utility Pr		Wisconsin P	ublic Service				
Natural Gas Provi		none					
Energy Purchaser	* *						
Energy Farenaser	(5).						
Capacity:		Electrici	ty Generation Project (MW) ()R	Direct Use Project (mmBtu/h	ır)
Estimated Potenti	al Capacity:			3			25
Current Capacity:							
Planned Capacity	:						
Utilities in County:		Central Wiso	consin Elec Coop; Clark Ele	ectric Coop	erative; Nor	thern States Power Company;	Stratford
•			RONMENTAL BENEFIT	_			
		2.2.	Poten			Current	
Methane Reduction (to	ma(hm).		Foten	иш	4,683	Current	0
	• •				98,343		-
CO2 Equivalent of CH	4 Reauction (to)	ns/yr):			98,343		0
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Genera	tion Projec	t	Direct Use Projec	et
			CO2 (tons/yr)	SO2 (tor	is/yr)	CO2 (tons/yr) Se	O2 (tons/yr)
		Coal:	19,732		125	14,102	128
		Fuel Oil:	16,195		104	11,575	68
	N	atural Gas:	10,890		0	7,783	0
		ann an Gas.	E. CONTACT INFORM	IATION		7,703	
		Landfill (IATION		Landfill Operator	
Contact Name:	James Pellitter			Inmes	Pellitteri		
Mailing Address:	R18500-B Rin	gle Avenue		18500	-B Ringle A	venue	
Phone Number:	mag				1 6 0005		
i none indinoer.	715-446-3339			715-4	46-3339		
Fax Number:							

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			Metro Recycling and Dis	sposal LF		Landfill Categ	gory: Current
		A. G	ENERAL LANDFILL IN	FORMATIO	N		
Landfill Owner:	WMI		Anı	nual Acceptance	ce Rate (tons):		649,000
Landfill Owner Type:				-	eptance Rate Repo	orted:	1998
Alternative Landfill N	ame:			ign Capacity (11,400,000
City:	Frankli	n			andfilled (acres):		108
County:	Milwau	ıkee	Ave	erage Depth (fe	eet):		110
State:	WI		199	98 Waste-in-Pl	lace (tons):		9,599,040
Year Open:	1951		199	8 Waste-in-Pl	ace (tons):		9,599,040
Year Closed:	2008						
		J	B. LANDFILL GAS COLI	LECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.99			
LFG Collection System	n Status:		Opera	itional			
Current LFG Collected	d (mmscf/d):			3.5			
Collection and Treatm	ent System Requ	uired Under NSF	PS/EG:	No			
			C. LANDFILL GAS UTIL	IZATION			
Current Utilization:							
Utilization Syster	n Status:	Operational					
Utilization Syster		Gas Turbine					
Utilization Syster		1986					
Electric Utility Pr		1,00					
Natural Gas Prov							
Energy Purchaser							
Znergy r urenuser	(5).						
Capacity:		Electrici	ty Generation Project (MW) OR	Direct U	Jse Project (mmF	Btu/hr)
Estimated Potent	ial Capacity:			6			62
Current Capacity:	:			6.6			73
Planned Capacity	:						
Utilities in County:		Wisconsin E	Electric Power Co; Wisconsi	n Public Servi	ice Corp		
,			RONMENTAL BENEFITS				
		D. LIVII	Poten			Curren	4
Mathana Paduation (to	~~ (Am).		roien		477	Curren	
Methane Reduction (to CO2 Equivalent of CH	= '				,477		13,490
CO2 Equivalent of CH	4 Reauction (tol	ns/yr):		241	,023		283,298
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Genera	tion Project		Direct Use P	roject
			CO2 (tons/yr)	SO2 (tons/y	r) CO	2 (tons/yr)	SO2 (tons/yr)
		Coal:	48,935	30	09	34,562	315
		Fuel Oil:	40,164	25	59	28,367	165
	N	atural Gas:	27,007		0	19,074	0
			E. CONTACT INFORM	IATION			
		Landfill (IATION	Landf	ill Operator	
Contact Name:	Ray, Landfill			Ray Lat	ndfill Engineer	- I · · · · ·	
	_	_			_		
Mailing Address:	10627 S. 27th	Street		10627 S.	27th Street		
Phone Number:	414-529-6180			414-529-	6180		
Fax Number:							
I da Humbel.							



			Omega Hills	LF		Landfill C	ategory:	Current
		A. G	ENERAL LANDFILL I		ION			
Landfill Owner:			A	annual Accep	tance Rate (to			497,640
Landfill Owner Type:					Acceptance Ra	ate Reported:		12 1 15 550
Alternative Landfill Na		7711		Design Capaci	•]	12,147,570
City:		ntown Village			y Landfilled	(acres):		83
County:	Washin	igton		verage Depth				140
State:	WI				n-Place (tons)			9,000,000
Year Open: Year Closed:	1971 1989		Ι	998 Waste-in	-Place (tons).	:		9,000,000
Teal Closed.	1909	F	3. LANDFILL GAS CO	LLECTION				
Estimated Methane Ge	noration (mmse			2.72				
LFG Collection System		<i>j/u)</i> .	On	erational				
Current LFG Collected			Ор	6.0				
Collection and Treatme		uired Under NSP	S/EC:	No				
Concetion and Treatme	in System Requ		C. LANDFILL GAS UT		Ī			
			C. LANDFILL GAS CI	ILIZATION				
Current Utilization:	G	0 1						
Utilization System		Operational						
Utilization System	• •	Gas Turbine						
Utilization System		1985						
Electric Utility Pro								
Natural Gas Provi								
Energy Purchaser	(s):							
Capacity:		Electrici	y Generation Project (M	W) (OR The state of th	Direct Use Project (n	nmBtu/hı	r)
Estimated Potenti	al Capacity:			9				85
Current Capacity:				6.6				125
Planned Capacity:								
Utilities in County:		Barron Elect	ric Cooperative; Clark E	lectric Coope	rative; Eau Cl	laire Electric Coop; I	Iartford U	Jtilities
		D. ENVIR	ONMENTAL BENEF	ITS OF UTII	LIZATION			
			Por	ential		Cu	rrent	
Methane Reduction (to	ns/yr):				15,726			23,126
CO2 Equivalent of CH	4 Reduction (to	ns/yr):		,	330,242			485,654
Emissions Avoided by I	Fossil Fuel Disp	olacement:	Electricity Gene			Direct Us	-	
			CO2 (tons/yr)	SO2 (to	ıs/yr)	CO2 (tons/yr)	SO	02 (tons/yr)
		Coal:	67,089		424	47,356		431
		Fuel Oil:	55,063		354	38,868		227
	N	atural Gas:	37,025		0	26,135		0
			E. CONTACT INFO	RMATION				
		Landfill (Owner			Landfill Operator		
Contact Name:				Don (Otter			
Mailing Address:				N96W	VI3503 Count	v Lane		
Maning Address.				11901	TOUUS COUIII	J Lane		
Phone Number:								
Fax Number:								

12



			Oneida County SLF and I	Demolition		Landfill Categ	ory: Candidate
		A. G	ENERAL LANDFILL IN	FORMAT	ION		
Landfill Owner:	Oneida	County	An	nual Accep	tance Rate (t	ons):	26,289
Landfill Owner Type:	Public		Yea	ar Annual A	Acceptance R	ate Reported:	1993
Alternative Landfill N	ame:		Des	sign Capaci	ty (tons):		2,699,460
City:	Rhinela	ander	Acı	es Currentl	y Landfilled	(acres):	
County:	Oneida	ı	Ave	erage Deptl	ı (feet):		
State:	WI		Wa	ste-in-Place	e (tons):		456,458
Year Open:	1979		199	8 Waste-in	-Place (tons)) <i>:</i>	507,176
Year Closed:	2001						
]	B. LANDFILL GAS COL	LECTION			
Estimated Methane Ge	eneration (mmsc	rf/d):		0.18			
LFG Collection System	m Status:						
Current LFG Collected	d (mmscf/d):						
Collection and Treatm	ent System Requ			No			
			C. LANDFILL GAS UTII	LIZATION	I		
Current Utilization:							
Utilization System	n Status:	Potential					
Utilization Syster	n Type:	Direct Theri	nal				
Utilization System	n Start Year:						
Electric Utility P	rovider(s):						
Natural Gas Prov	ider(s):						
Energy Purchases	r(s):						
Carra a itan		D14-:	t Cti Dit (MW))R	D:	ter floor
Capacity:		Electrici	ty Generation Project (MW)K	Direct Use Project (mmB	
Estimated Potent				1			6
Current Capacity							
Planned Capacity	7:						
Utilities in County:		Price Electri	c Coop Inc; Wisconsin Pub	lic Service	Corp		
		D. ENVII	RONMENTAL BENEFIT	S OF UTII	LIZATION		
			Poten			Current	<u> </u>
 Methane Reduction (to	anche).		1 Oten	ııuı	1,036	Current	0
CO2 Equivalent of CH	• /	nc/ur).			21,762		0
CO2 Equivalent of CI	14 Reduction (to	ns/ yr).			21,702		
Emissions Avoided by	Fossil Fuel Disp	placement:	Electricity Genera	tion Projec	et	Direct Use Pr	roject
			CO2 (tons/yr)	SO2 (tot	ıs/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	4,736		30	3,121	28
					25		15
		Fuel Oil:	3,887		25	2,561	15
	N	latural Gas:	2,614		0	1,722	0
			E. CONTACT INFORM	ATION			
		Landfill	Owner			Landfill Operator	
Contact Name:	Connie Antonu	uk		Bart S	Sexton		
Mailing Address:	Courthouse, Po	O Box 400		PO B	ox 400		
Maning Address.	Courtilouse, FO	O DOX 700		100	JA 700		
Dhona Numbar					0		
Phone Number:				715-2	82-6003		
Fax Number:							
	l						



			Outagamie County	LF		Landfill Category	: Current
		A. G	ENERAL LANDFILL INI		ON		
Landfill Owner:	Outaga	mie County	Ann	ual Accept	ance Rate (to	ons):	239,280
Landfill Owner Type:	Public	ine county				ate Reported:	1993
Alternative Landfill N		on Landfill		ign Capacit	•	and responded.	4,649,070
City:	Appleto			•	y Landfilled	(acres):	460
County:	Outaga			rage Depth	="	(deres).	65
State:	WI				-Place (tons):	3,994,902
Year Open:	1975				Place (tons)	,	4,984,706
Year Closed:	2040		1771	s wasie in	ruce (tons)	•	4,204,700
		I	B. LANDFILL GAS COLI	ECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.69			
LFG Collection System		<i>y, cu)</i> .	Opera				
Current LFG Collected			open.	1.4			
Collection and Treatm		uired Under NSF	PS/FG·	No			
Concetion and Treatm	ent Bystem Requ		C. LANDFILL GAS UTIL				
Current Utilization:							
Utilization Syster	n Status	Operational					
Utilization System		Reciprocatin	a Engina				
•	• •	-	g Engine				
Utilization System		1991	lectric Power Co.				
Electric Utility Pr							
Natural Gas Prov		Wisconsin N	aturai Gas				
Energy Purchaser	r(s):						
Capacity:		Electrici	ty Generation Project (MW)	C	R	Direct Use Project (mmBtu/	hr)
Estimated Potenti	ial Capacity:			5			53
Current Capacity:				2.5			29
Planned Capacity							
There is an a		IZ 1 E	1 0 W/ D / D' El /	· G I	****		' D.I.I.
Utilities in County:						n Electric Power Co; Wiscon	sin Public
		D. ENVIR	RONMENTAL BENEFITS	OF UTIL	LIZATION		
			Potent	ial		Current	
Methane Reduction (to	ons/yr):				9,788		5,396
CO2 Equivalent of CH	14 Reduction (to	ns/yr):		2	205,548		113,320
Emissions Ausided by	Essail Essal Disa		Electricity Consum	tion Duoise	4	Dinast Usa Busia	n4
Emissions Avoided by	rossii ruei Disp	otacement:	Electricity General	-		Direct Use Proje	
			CO2 (tons/yr)	SO2 (ton	s/yr)		O2 (tons/yr)
		Coal:	41,832		264	29,475	268
		Fuel Oil:	34,334		221	24,192	141
	N	latural Gas:	23,086		0	16,267	0
			E. CONTACT INFORM	ATION			
		Landfill (Landfill Operator	
Contact Name:	Gary Steede			Gary S	Steede	-	
M-11 A.11	_	D J					
Mailing Address:	1419 Holland I	Koau		14191	Holland Roa	u	
Dhono Ni							
Phone Number:	920-832-5277			920-83	32-5277		
Fax Number:							



			Parkview Recyclin	ng LF		Landfill Catego	ry: Current
		A. G	ENERAL LANDFILL IN	FORMAT	ION		
Landfill Owner:			An	nual Accept	ance Rate (to	ns):	
Landfill Owner Type:				-	cceptance Ra		1993
Alternative Landfill N	ame:			sign Capaci	-		
City:	Menom	nonee Falls			y Landfilled (acres):	43
County:	Wauke	sha		erage Depth	-		85
State:	WI				-Place (tons):		4,250,000
Year Open:	1990				·Place (tons):		4,250,000
Year Closed:	1995		12	o music in	ruce (tons).		4,230,000
]	B. LANDFILL GAS COL	LECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.51			
LFG Collection Syster		,,	Oper	ational			
Current LFG Collected				0.8			
Collection and Treatm		uired Under NSF	PS/EG:	No			
	ent system requ		C. LANDFILL GAS UTI				
C TIVII							
Current Utilization:	G	0					
Utilization Syster		Operational	- .				
Utilization Syster		Reciprocatin	ig Engine				
Utilization Syster		1993					
Electric Utility Pr							
Natural Gas Prov							
Energy Purchaser	r(s):						
Capacity:		Electrici	ty Generation Project (MW	/) C	DR I	Direct Use Project (mmBt	ı/hr)
Estimated Potenti	ial Capacity:			5			47
Current Capacity:	:			1.0			17
Planned Capacity	:						
Utilities in County:		Crawford El	ectric Cooperative; Musco	da Light & V	 Water Commi	ssion: Oconomowoc Utilit	ies: Oconto
			RONMENTAL BENEFIT				
		D. EIVII			ZZATION	Comment	
Madama Dadaadaa (4)	()		Potei	ппаі	9.702	Current	2.094
Methane Reduction (to	- ·				8,702		3,084
CO2 Equivalent of CH	4 Reduction (to	ns/yr):]	82,732		64,754
Emissions Avoided by	Fossil Fuel Dist	olacement:	Electricity Gener	ation Projec	t	Direct Use Pro	iect
	•		CO2 (tons/yr)	SO2 (ton			SO2 (tons/yr)
		Coal:	37,096	,	235	26,203	238
		Fuel Oil:	30,447		196	21,507	125
					190		123
	N	latural Gas:	20,473		0	14,461	0
			E. CONTACT INFOR	MATION	<u>'</u>		
		Landfill	Owner			Landfill Operator	
Contact Name:	James Dunham	ı		Dan C	tzelberger, Er	ngineer	
Mailing Address:				N96 V	V13475 Count	tv Lane	
				1,55	. 10 .70 Count	-, — 	
Phone Number:				4140	52 0630		
				414-2	53-8620		
Fax Number:							
				-			



			Pheasant Run Recycling	-		Landfill Category:	Current
		A. G	ENERAL LANDFILL INFO	ORMAT	ION		
Landfill Owner:	WMI		Annu	al Accept	ance Rate (tons)):	328,183
Landfill Owner Type:			Year A	Annual A	acceptance Rate	Reported:	1993
Alternative Landfill N	ame:		Desig	n Capaci	ty (tons):		
City:	Bristol		Acres	Currentl	y Landfilled (ac	res):	120
County:	Kenosh	ıa	Avera	ge Depth	(feet):		80
State:	WI		1994	Waste-ir	-Place (tons):		4,204,509
Year Open:	1968		1998	Waste-in	-Place (tons):		5,413,527
Year Closed:	2014						
		l	B. LANDFILL GAS COLLE	ECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.80			
LFG Collection System		,	Operation	onal			
Current LFG Collected			1	0.8			
Collection and Treatm		uired Under NSF	PS/EG:	No			
	3 1		C. LANDFILL GAS UTILIZ	ZATION			
Current Utilization:							
Utilization System	n Status	Operational					
Utilization System		Reciprocatin	a Engina				
Utilization System		1992	g Engine				
Electric Utility Pr		1992					
Natural Gas Prov							
Energy Purchaser	(8):						
Capacity:		Electrici	ty Generation Project (MW)	C	OR Dia	rect Use Project (mmBtu/h	r)
Estimated Potent	ial Capacity:			6			56
Current Capacity	:			1.6			17
Planned Capacity	:						
Utilities in County:		Wisconsin E	lectric Power Co; Wisconsin	Power &	Light Co		
		D. ENVIR	RONMENTAL BENEFITS	OF UTII	LIZATION		
			Potentia	ı1		Current	
 Methane Reduction (to	ons/vr)·		1 Otentie		10,422	Current	3,084
CO2 Equivalent of CH	• .	ns/vr)·		,	218,864		64,754
CO2 Equivalent of CI	4 Reduction (to	113/ y1).			210,004		04,734
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generation	on Projec	t	Direct Use Projec	t
			CO2 (tons/yr)	SO2 (tor	is/yr)	CO2 (tons/yr) SO	02 (tons/yr)
		Coal:	44,200		279	31,385	286
		Fuel Oil:	36,277		234	25,759	150
	3.7						
	IV	atural Gas:	24,393		0	17,321	0
		T 10'11	E. CONTACT INFORMA	TION		16.11.0	
C () N		Landfill	Owner			Landfill Operator	
Contact Name:	Mike Infusino			Mike	Infusino		
Mailing Address:	19414 60th Str	eet		19414	60th Street		
Phone Number:	414-857-7956			414-8	57-7956		
Fax Number:							



			Ridgeview Recycling	g LF		Landfill Category:	Candidate
		A. G	ENERAL LANDFILL INF	-	N		
Landfill Owner:	WMI		Ann	ual Acceptano	ce Rate (tons):		313,476
Landfill Owner Type:	Private		Year	Annual Acce	eptance Rate Repo	orted:	1993
Alternative Landfill N	ame:		Desi	gn Capacity ((tons):		3,449,310
City:	Frankli	n	Acre	s Currently L	andfilled (acres):		55
County:	Manito	woc	Ave	rage Depth (fo	eet):		
State:	WI		Was	te-in-Place (to	ons):		3,957,234
Year Open:	1982		1998	3 Waste-in-Pl	ace (tons):		4,484,865
Year Closed:	2008						
		J	B. LANDFILL GAS COLL	ECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.57			
LFG Collection Syster			Opera	ional			
Current LFG Collected							
Collection and Treatm	ent System Requ			Yes			
		(C. LANDFILL GAS UTIL	IZATION			
Current Utilization:							
Utilization Syster	n Status:	Planned					
Utilization Syster	n Type:	Reciprocatin	g Engine				
Utilization Syster	n Start Year:						
Electric Utility Pr	rovider(s):						
Natural Gas Prov	ider(s):						
Energy Purchaser	r(s):						
Capacity:		Electrici	ty Generation Project (MW)	OR	Direct U	Jse Project (mmBtu/h	r)
Estimated Potenti	ial Capacity:			5			49
Current Capacity:	:						
Planned Capacity	:						
Utilities in County:		Kiel Utilities	s; Manitowoc Public Util; Tv	wo Rivers Wa	ater & Light Dept;	Wisconsin Electric P	ower Co
		D. ENVII	RONMENTAL BENEFITS	OF UTILIZ	ZATION		
			Potent	ial		Current	
 Methane Reduction (to	ons/vr):		1 010111		,049	Current	0
CO2 Equivalent of CH	• .	ns/vr):			,025		0
1					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generat	ion Project		Direct Use Projec	
			CO2 (tons/yr)	SO2 (tons/y	rr) CC	02 (tons/yr) SO	02 (tons/yr)
		Coal:	38,675	24	45	27,249	248
		Fuel Oil:	31,742	20	04	22,365	130
	N	atural Gas:	21,344		0	15,039	0
			E. CONTACT INFORM	ATION		·	
		Landfill			Landf	ill Operator	
Contact Name:	Chris Johnson			Chris Joh		•	
		. D. 225					
Mailing Address:	North Mill Stre	eet, Box 227		Route 1 6	5207 Hempton		
Phone Number:				000 ===	4.450		
				920-732-	44/3		
Fax Number:							
				1			



			Rock County City of Jan	nesville LF		Landfill Catego	ry: Candidate
		A. G	ENERAL LANDFILL IN	FORMATI	ON		
Landfill Owner:	City of	Janesville	An	nual Accept	ance Rate (tons):		123,575
Landfill Owner Type:	Public		Ye	ar Annual A	cceptance Rate F	Reported:	1993
Alternative Landfill N	ame:		De	sign Capacit	ty (tons):		3,149,370
City:	Janesvi	ille	Ac	res Currentl	y Landfilled (acre	es):	35
County:	Rock		Av	erage Depth	(feet):		80
State:	WI		Wa	aste-in-Place	(tons):		1,812,432
Year Open:	1985		199	98 Waste-in-	Place (tons):		1,691,603
Year Closed:	2005						
]	B. LANDFILL GAS COL	LECTION			
Estimated Methane G	eneration (mmsc	rf/d):		0.85			
LFG Collection System			Oper	ational			
Current LFG Collecte			•	0.0			
Collection and Treatm		uired Under NSI	PS/EG:	No			
	, ,		C. LANDFILL GAS UTI	LIZATION			
Current Utilization:							
Utilization System	m Status:	Planned					
Utilization System		Direct Therr	nal				
Utilization System	• •	Direct Theri	iiai				
		Unknown					
Electric Utility Paragraphy Natural Gas Prov		Unknown					
	` ,						
Energy Purchases	r(s):	Unknown					
Capacity:		Electrici	ty Generation Project (MW	7) C	OR Dire	ect Use Project (mmBt	ı/hr)
Estimated Potent	ial Capacity:			3			27
Current Capacity	:						
Planned Capacity	':						0
Utilities in County:		Evansville V	Vater & Light Dept; Rock (County Elect	tric Coop Assn: S	South Beloit Water, Ga	s & Electri
etimies in county.			RONMENTAL BENEFIT				S & Electri
		D. ENVII			LIZATION		
			Poter	ntial		Current	
Methane Reduction (to	• .				4,918		0
CO2 Equivalent of CH	H4 Reduction (to	ns/yr):		1	.03,282		0
Emissions Avoided by	Fossil Fuel Diss	nlacement:	Electricity Genero	ation Projec	t	Direct Use Pro	iect
Linissions rivolaca by	1 Ossii 1 nei Disp	лисетет.	CO2 (tons/yr)	SO2 (ton		CO2 (tons/yr)	SO2 (tons/yr)
			, ,	502 (1011		•	
		Coal:	21,311		135	14,810	135
		Fuel Oil:	17,491		113	12,156	71
	Λ	latural Gas:	11,761		0	8,174	0
			E. CONTACT INFORM	MATION		-, -	
		Landfill		VIATION	La	andfill Operator	
Contact Name:	John Whitcom		- ··· · ·	Iohn V	Vhitcomb		
Mailing Address:	18 North Jacks	son		18 No	rth Jackson		
Phone Number:	608-755-3110			608-7	55-3105		
	355 755 5110			335 /	0100		
Fax Number:							



			Tork LF (old)		Landfill Catego	ry: Shutdown
		A G	ENERAL LANDFILL INFO	RMATION	Lanajii Catego	ry. Silutdowii
7 1011 0						
Landfill Owner:	Superio	or Services, Inc.		al Acceptance Rate (
Landfill Owner Type:				Annual Acceptance	Rate Reported:	000 000
Alternative Landfill N			-	n Capacity (tons):	17	800,000
City:		isin Rapids		Currently Landfille	d (acres):	22
County:	Wood			ge Depth (feet):	-).	50 800.000
State:	WI 1070			Waste-in-Place (ton Waste-in-Place (tons	<i>'</i>	,
Year Open: Year Closed:	1970 1988		1990 (wasie-in-Piace (ions	8):	800,000
Teal Closed.	1900	I	B. LANDFILL GAS COLLE	CTION		
Estimated Methane Ge	eneration (mmsc	f/d):	C	0.28		
LFG Collection Syster	n Status:		Operation	onal		
Current LFG Collected	d (mmscf/d):			0.5		
Collection and Treatm	ent System Requ	uired Under NSF	S/EG:	No		
			C. LANDFILL GAS UTILIZ	ZATION		
Current Utilization:						
Utilization Syster	n Status:	Shutdown				
Utilization Syster		Ic Engine				
Utilization Syster		1993				
Electric Utility Pr	ovider(s):					
Natural Gas Prov	ider(s):					
Energy Purchaser	r(s):	Tork Truckii	ng & Landfill (electricity, gas	&		
Capacity:		Electrici	ty Generation Project (MW)	OR	Direct Use Project (mmBt	1/hr)
	:-1.0	Electrici	ty Generation Project (WW)		Direct Ose Froject (minist	9
Estimated Potenti				1		9
Current Capacity: Planned Capacity				.2		10
Framied Capacity	•			.2		10
Utilities in County:		Adams-Colu	mbia Electric Coop; Clark Ele	ectric Cooperative; (Consolidated Water Power C	o; Marshfie
		D. ENVIR	CONMENTAL BENEFITS (OF UTILIZATION		
			Potentia	l	Current	
Methane Reduction (to	ons/yr):			1,635		1,927
CO2 Equivalent of CH	14 Reduction (to	ns/yr):		34,327		40,471
Emissions Ausided by	Famil Fuel Diag	-1	Electricity Conceptio	n Duoissa	Dinast Has Dus	inat
Emissions Avoided by	rossii ruei Disp	nacement:	Electricity Generatio CO2 (tons/yr)	n Projeci SO2 (tons/yr)	Direct Use Pro CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	7,104	45	4,922	45
		Fuel Oil:	5,830	38	4,040	24
	N	atural Gas:	3,920	0	2,717	0
		<u> </u>	E. CONTACT INFORMA	TION	T 1000	
		Landfill (Owner		Landfill Operator	
Contact Name:	Don Smith, Sit	e Engineer		Alan Albee, Gene	eral Manager	
Mailing Address:	10150 West Na	ational Avenue		PO Box 218		
Phone Number:	414-479-7800			715-421-3966		
Fax Number:	414-328-2899					



			Tork LF Corporation-Sene	eca LF	Landfill Categ	gory: Candidate
		A. G	ENERAL LANDFILL INFO		, , , , , , , , , , , , , , , , , , ,	,
Landfill Owner:	Superio	or Services, Inc.	Annua	al Acceptance Rate ((tons):	120,000
Landfill Owner Type:	•			Annual Acceptance		1995
Alternative Landfill N	ame: Seneca	LF		n Capacity (tons):	•	840,000
City:	Wiscon	isin Rapids		Currently Landfille	d (acres):	37
County:	Wood	•		ge Depth (feet):	,	40
State:	WI			Waste-in-Place (ton	as):	890,000
Year Open:	1988			Waste-in-Place (ton.		1,250,000
Year Closed:	2003			,	,	, ,
		I	B. LANDFILL GAS COLLE	CCTION		
Estimated Methane Ge	neration (mmsc	f/d):	().74		
LFG Collection Syster	n Status:		Operation	onal		
Current LFG Collected	l (mmscf/d):		-	0.1		
Collection and Treatm	ent System Requ	uired Under NSF	PS/EG:	No		
			C. LANDFILL GAS UTILIZ	ZATION		
Current Utilization:						
Utilization Syster	n Status:	Potential				
Utilization Syster		Unknown				
Utilization Syster						
Electric Utility Pr						
Natural Gas Prov						
Energy Purchaser	* *					
8,	(-)-					
Capacity:		Electrici	ty Generation Project (MW)	OR	Direct Use Project (mmE	Stu/hr)
Estimated Potenti	al Capacity:			2		23
Current Capacity:						
Planned Capacity	:					2
Utilities in County:		Adams-Colu	mbia Electric Coop; Clark Ele	ectric Cooperative: (Consolidated Water Power	Co: Marshfie
			RONMENTAL BENEFITS (
		D. LAVII				+
Mathana Daduation (to			Potentia		Curren	385
Methane Reduction (to	- ·			4,265		
CO2 Equivalent of CH	4 Reauction (to)	ns/yr):		89,567		8,093
Emissions Avoided by	Fossil Fuel Dist	olacement:	Electricity Generatio	on Project	Direct Use Pi	roject
•	•		CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	18,153	115	12,844	117
		Fuel Oil:	14,899	96	10,542	61
	N	latural Gas:	10,019	0	7,088	0
			E. CONTACT INFORMA		.,,,,,	
		Landfill (IION	Landfill Operator	
Contact Name:	Don Smith, Sit			Alan Albee, Gene		
					Crai ivianagei	
Mailing Address:	10150 West Na	ational Avenue		PO Box 218		
Phone Number:	414 470 7000			715 401 2066		
	414-479-7800			715-421-3966		
Fax Number:	414-328-2899					

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: WI Page: 20



			Troy Area LF Inco	orporated		Landfill Category	: Candidate
		A. G	ENERAL LANDFILL	INFORMAT	ION		
Landfill Owner:	BFI		A	Annual Accep	tance Rate ((tons):	439,584
Landfill Owner Type:	Private			-		Rate Reported:	1993
Alternative Landfill Name:			Ι	Design Capaci	ty (tons):		
City:	East Tro	ру	A	Acres Currentl	y Landfille	d (acres):	48.3
County:	Walwor	th	A	Average Depth	(feet):		
State:	WI		7	Waste-in-Place	e (tons):		3,072,144
Year Open:	1987		1	998 Waste-in	-Place (ton.	s):	3,072,144
Year Closed:	1996						
		I	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Generation	(mmscf	/d):		1.20			
LFG Collection System Status:			Op	erational			
Current LFG Collected (mmscf	(d):			0.7			
Collection and Treatment Syste	m Requ			No			
			C. LANDFILL GAS UT	TILIZATION	I		
Current Utilization:							
Utilization System Status:		Unknown					
Utilization System Type:		Unknown					
Utilization System Start Y	ear:						
Electric Utility Provider(s)):						
Natural Gas Provider(s):							
Energy Purchaser(s):							
Capacity:		Electrici	ty Generation Project (M	(W))R	Direct Use Project (mmBtu/h	nr)
Estimated Potential Capac	city:			4			38
Current Capacity:	,						
Planned Capacity:							15
Utilities in County:		Elkhorn Ligh	nt & Water Dent: Madisc	on Gas & Elec	tric Compa	ny; Rock County Electric Coo	a Assn: S
Cumues in County.			CONMENTAL BENEF		•		, 1100m, 2
		D. E. VII		tential		Current	
Methane Reduction (tons/yr):			10	ieniiai	6,960	Current	2,698
CO2 Equivalent of CH4 Reduct	tion (ton	chir).			146,154		56,660
CO2 Equivalent of CI14 Reduct	iion (ion	s/ yr).			140,134		30,000
Emissions Avoided by Fossil Fi	uel Disp	lacement:	Electricity Gene	eration Projec	rt .	Direct Use Projec	et
			CO2 (tons/yr)	SO2 (to	ıs/yr)	CO2 (tons/yr) Se	O2 (tons/yr)
		Coal:	29,993		190	20,958	191
		Fuel Oil:	24,617		159	17,202	100
	3.7						
	Nα	itural Gas:	16,553		0	11,567	0
		Landfill (E. CONTACT INFO	RMATION		Landfill Operator	
C () N			Owner				
Contact Name: Ronald	Loudbe	ck		Ronal	d Loudback	ζ	
Mailing Address:				1827	Walden Off	fice Square, Suite 107	
Discuss Nove 1							
Phone Number:				414-6	42-3693		
Fax Number:				414-6	42-7020		
* Itallicized indicates values est	imated l	by EPA.	Dec	cember 5, 199	8	State: WI Page	e: 21

		Va	lley Sanitation Company 1	Incorporated	LF	Landfill Cates	gory: C	Candidate
			ENERAL LANDFILL IN	-				
Landfill Owner:	Superior Services, Incorporated Annual Acceptance Rate (tons): 115							
Landfill Owner Type:	-	-	-		tate Reported:		1995	
Alternative Landfill N	De	sign Capaci	ty (tons):		1,	200,000		
City:	City: Fort Atkinson				y Landfilled	(acres):		26.5
County:	Jefferso	on	Av	erage Depth	ı (feet):			50
State:	WI	19	95 Waste-ir	n-Place (tons):		955,000	
Year Open:	1978		19	98 Waste-in	-Place (tons)) <i>:</i>	1,	300,000
Year Closed:	2002							
		В	. LANDFILL GAS COL	LECTION				
Estimated Methane Ge	eneration (mmsc	f/d):		0.75				
LFG Collection System	n Status:		Oper	rational				
Current LFG Collected	d (mmscf/d):			0.7				
Collection and Treatm	ent System Requ	uired Under NSP	S/EG:	No				
		(C. LANDFILL GAS UTI	LIZATION				
Current Utilization:								
Utilization System	n Status:	None						
Utilization System	n Type:	Unknown						
Utilization System	n Start Year:							
Electric Utility Pr	rovider(s):							
Natural Gas Prov	ider(s):							
Energy Purchases	r(s):							
Capacity:		Electricit	y Generation Project (MW	7) ()R	Direct Use Project (mml	Btu/hr)	
Estimated Potent	ial Capacity:			2				24
Current Capacity								
Planned Capacity								15
III.II.		A.1. G.1	l'El ('C D	M		111 1:14 0 D C		I CC
Utilities in County:			mbia Electric Coop; Bang			niberg Light & Power Co	mpany;	Jeffer
		D. ENVIR	ONMENTAL BENEFIT	S OF UTII	LIZATION			
			Pote	ntial		Currer	ıt	
Methane Reduction (tons/yr):					4,339			2,698
CO2 Equivalent of CH	I4 Reduction (to	ns/yr):			91,121			56,660
Fmissions Avoided by	Fossil Fuel Disa	nlacement:	Electricity Gener	ation Projec	·t	Direct Use P	roiect	
Emissions Avoided by Fossil Fuel Displacement:			CO2 (tons/yr) SO2 (tons/yr)			CO2 (tons/yr) SO2 (tons/y		
		Coal:	18,153	202 (101	115	13,067	~~~(119
Fuel Oil:			14,899		96	10,724		63
	IV	latural Gas:	10,019		0	7,211		0
		I 10°11 6	E. CONTACT INFOR	MATION		1 1011 0		
		Landfill (Owner			Landfill Operator		
Contact Name:	Ed, Scaro			Ed Scaro				
Mailing Address:	1215 Klement Street			1215 Klement Street				
Phone Number:				111 5	63-4505			
				414-3	05-4505			
Fax Number:								



			Valley Trail I	F		Landfill Catego	rv: Current
		A. G	ENERAL LANDFILL II		ION	Zunajin Carego	7). Culture
Landfill Owner:	WMI		Λ	nnual Accen	tance Rate (ton	6).	500,000
Landfill Owner Type:	Private		Annual Acceptance Rate (tons): Year Annual Acceptance Rate Reported:				1998
Alternative Landfill Name:				• • •			
City:	anne. Berlin			Design Capacity (tons): Acres Currently Landfilled (acres):			
_	Green I	alsa			-	icies).	80 80
County:		_аке		verage Depth			2,399,760
State:	WI 1079			1998 Waste-in-Place (tons):			
Year Open:	1978		19	998 Waste-ın	-Place (tons):		2,399,760
Year Closed:	2008	ī	B. LANDFILL GAS CO	LECTION			
F. J. D. J. C.	/		S. LANDFILL GAS CO				
Estimated Methane Ge	· -	t/d):		1.03			
LFG Collection Syster			Ope	rational			
Current LFG Collected							
Collection and Treatm	ent System Requ			Yes			
			C. LANDFILL GAS UT	ILIZATION			
Current Utilization:							
Utilization Syster	n Status:	Construction	1				
Utilization Syster	n Type:	Boiler					
Utilization Syster	n Start Year:	1999					
Electric Utility Pr	ovider(s):						
Natural Gas Prov	ider(s):						
Energy Purchaser	r(s):						
	,	-					
Capacity:		Electrici	ty Generation Project (MV	N) (OR D	Pirect Use Project (mmBt	u/hr)
Estimated Potenti	ial Capacity:			3			32
Current Capacity:	:						
Planned Capacity	:						
Utilities in County:		Adams Colu	mbia Electric Coop; Princ	eaton Elac Li	aht Dant: Way	shara Flac Coop: Wiscon	nsin Dowar &
Othities in County.						shara Lice Coop, wiscon	isiii i owei &
		D. ENVIR	RONMENTAL BENEFI		LIZATION		
			Pote	ential		Current	
Methane Reduction (tons/yr):				5,965			0
CO2 Equivalent of CH4 Reduction (tons/yr):				-	125,273		0
Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project							niect .
Linustions Avoided by	1 Ossii 1 iiei Disp	лисетені.	CO2 (tons/yr) SO2 (tons/yr)			CO2 (tons/yr) SO2 (tons/yr)	
			, , ,	502 (101			, , ,
Coal:		25,257		160	17,964	164	
Fuel Oil:		20,730		133	14,744	86	
Natural Gas:			13,939		0	9,914	0
			E. CONTACT INFOR	MATION			
		Landfill (Owner			Landfill Operator	
Contact Name:	Todd Hartman			Todd	Hartman		
Moiling Add.		Willord D. 1					
Mailing Address:	Route 2 South Box 286	vv iiiaru Koad		POB	ox 286		
Phone Number:				020.2	61 4005		
	920-361-4995			920-3	61-4995		
Fax Number:							



			Winnebago County LF - Sno	all Road		7	Landfill Category:	Current	
		A. Gl	ENERAL LANDFILL INFO		ON		Lanajiii Caiegory.	Current	
T 1011 0								2.55:	
Landfill Owner:	Winneb		_	ance Rate (_	26,754		
Landfill Owner Type:					Rate Reported	d:	1990		
Alternative Landfill Na		Design Capacity (tons):							
City:	Oshkos	h		Acres Currently Landfilled (acres):					
County:	Winneb	oago		ge Depth				68	
State:	WI		1994	Waste-in	-Place (ton	s):		5,000,000	
Year Open:	1976		1998	Waste-in-Place (tons):				5,000,000	
Year Closed:	1990								
B. LANDFILL GAS COLLECTION									
Estimated Methane Ge	eneration (mmsc)	f/d):]	1.70					
LFG Collection System	n Status:		Operation	onal					
Current LFG Collected	l (mmscf/d):		2.0						
Collection and Treatme		uired Under NSP	S/EG:	No					
	<u>, , , , , , , , , , , , , , , , , , , </u>		C. LANDFILL GAS UTILIZ	ZATION					
C (III.)									
Current Utilization:	G	0 4 1							
Utilization System		Operational							
Utilization System		Gas Turbine							
Utilization System		1989							
Electric Utility Pr									
Natural Gas Provi	* *								
Energy Purchaser	(s):								
Capacity:		Electricit	y Generation Project (MW)	C)R	Direct Use	Project (mmBtu/hr)	
Estimated Potenti	al Capacity:			5				53	
Current Capacity:			3	3.3				42	
Planned Capacity									
Utilities in County:		Menasha Ele	c & Water Util; Wisconsin El	lectric Po	wer Co; W	isconsin Pow	er & Light Co; Wi	sconsin	
		D. ENVIR	CONMENTAL BENEFITS (OF UTIL	IZATION				
			Potentia	ıl			Current		
Methane Reduction (to	ons/yr):			9,811				7,709	
CO2 Equivalent of CH	- ·	ns/vr):		2	206,023			161,885	
								,,,,,,	
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generation Project				Direct Use Project		
			CO2 (tons/yr) SO2 (tons/yr)			CO2 (t	ons/yr) SO	2 (tons/yr)	
		Coal:	41,832		264		29,543	269	
Fuel Oil:			34,334		221		24,248	141	
Natural Gas:			23,086		0		16,305	0	
		E. CONTACT INFORMA	TION						
Landfill Owner Landfill Operator									
Contact Name:	Las Tours			I T			*		
Contact Haine.	Lee Tomando			Lee Tomando					
Mailing Address:	100 W County Road Y			100 W County Road Y					
Phone Number:	920-232-1810			920-424-0793					
E M 1	1			720 47	01/3				
Fax Number:									



			Winnebago County LF-	Sunneyview		Landfill Category	: Current	
		A. G	ENERAL LANDFILL IN	-	ON			
Landfill Owner:	County	of Winnebago	A	nnual Accept	ance Rate (tons	s):	229,000	
Landfill Owner Type:	Public			-	cceptance Rate		1998	
Alternative Landfill N	ame:			esign Capaci	-	•	4,800,000	
City:	City: Oshkosh					cres):	60	
County:	Winnel	oago		verage Depth				
State:	WI				-Place (tons):		2,184,000	
Year Open:	1989				Place (tons):		2,184,000	
Year Closed:	2017				(,		, , , , , , ,	
		I	B. LANDFILL GAS COI	LLECTION				
Estimated Methane G	eneration (mmsc	f/d):		0.98				
LFG Collection System	m Status:		None					
Current LFG Collected	d (mmscf/d):							
Collection and Treatm		uired Under NSF	S/EG:	Yes				
			C. LANDFILL GAS UTI	ILIZATION				
Current Utilization:								
Utilization System	m Status:	Operational						
Utilization System		Gas Turbine						
Utilization System		1998						
Electric Utility P		1770						
Natural Gas Prov								
Energy Purchase	* *							
Energy 1 drenaser	1(3).							
Capacity:		Electrici	ty Generation Project (MV	W) C	R D	irect Use Project (mmBtu/	nr)	
Estimated Potent	ial Capacity:			3			31	
Current Capacity	:							
Planned Capacity	7:							
Utilities in County:		Menasha Ele	c & Water Util: Wisconsi	n Electric Po	wer Co: Wisco	onsin Power & Light Co; W	/isconsin	
,			RONMENTAL BENEFI					
		D. LIVVII				Cumont		
Madama Dadaadaa (4			Pote	Potential		Current	0	
Methane Reduction (to	• .	()		5,646			0	
CO2 Equivalent of CH4 Reduction (tons/yr):				J	18,572		0	
Emissions Avoided by	Fossil Fuel Dist	olacement:	Electricity Generation Project			Direct Use Project		
	1		CO2 (tons/yr) SO2 (tons/yr)			CO2 (tons/yr) SO2 (tons/yr)		
		Coal:	24,468	,	155	17,003	155	
Fuel Oil:			20,082		129	13,955	81	
	N	atural Gas:	13,503		0	9,384	0	
			E. CONTACT INFOR	MATION				
		Landfill (Owner			Landfill Operator		
Contact Name:	Lee Tomando,	Landfill Gas Su	Lee Tomando, Landfill Gas Superintendant					
Mailing Address: 100 W County Trunk Y				100 W County Trunk Y		Υ		
	100 II County			100 11	Journey Hulli			
Phone Number:	020 222 1010			020.2	22 1000			
)20 232 1010				920-23	32-1800			
Fax Number:								
	1							

